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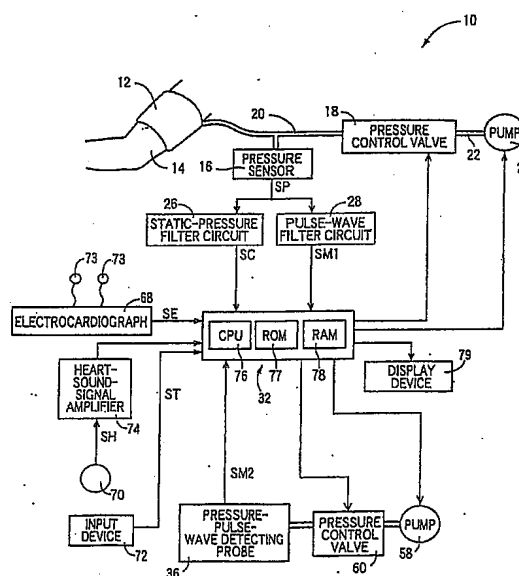
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(54) Arteriosclerosis inspecting apparatus

(57) An apparatus (10) for inspecting arteriosclerosis of a living subject, comprising a pulse-wave detecting device (54); an augmentation-index determining means (96) for determining, based on the pulse wave detected by the pulse-wave detecting device, an augmentation index indicating a proportion of a reflected-wave component of the pulse wave to an incident-wave component thereof, so that the arteriosclerosis of the subject is inspected based on the augmentation index; at least one waveform-related-information obtaining device (28,86;68,88;54,90;70,92;72,94) which obtains at least one sort of waveform-related information that is related to a change of a waveform of the pulse wave detected by the pulse-wave detecting device; a display device (79); an augmentation-index displaying means (98) for operating the display device to display the augmentation index and a waveform-related-information displaying means (100) for operating the display device to display, the waveform-related information.

FIG. 1**EP 1 332 715 A3**



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EUROPEAN SEARCH REPORT

Application Number
EP 02 02 0451

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	WO 90 11043 A (EASTERN MEDICAL TESTING SERVIC) 4 October 1990 (1990-10-04) * whole document *	1-8	A61B5/0205
A,P	--- WANG YI-XIN (JIM) ET AL: "Reduction of cardiac functional reserve and elevation of aortic stiffness in hyperlipidemic Yucatan minipigs with systemic and coronary atherosclerosis." VASCULAR PHARMACOLOGY, vol. 39, no. 1-2, 20 July 2002 (2002-07-20), pages 69-76, XP009012194 ISSN: 1537-1891 * whole document *	1-8	
A	--- BROOKS B ET AL: "Augmentation of central arterial pressure in type 1 diabetes." DIABETES CARE. UNITED STATES OCT 1999, vol. 22, no. 10, October 1999 (1999-10), pages 1722-1727, XP001147640 ISSN: 0149-5992 * whole document *	1-8	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			A61B
Place of search		Date of completion of the search	Examiner
MUNICH		27 June 2003	Edward, V
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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The members are as contained in the European Patent Office EDP file on
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27-06-2003

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9011043 A	04-10-1990	AU 5355690 A	22-10-1990
		WO 9011043 A1	04-10-1990
		US 5265011 A	23-11-1993

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